

**SECRET**  
(When Filled In)

<b>SPEED LETTER</b>	<b>REPLY REQUESTED</b>		<b>DATE</b>
	<b>YES</b>	<b>NO</b>	<b>LETTER NO.</b>
<b>TO :</b>		<b>FROM:</b>	
<b>ATTN:</b>			

1. This subject contract is for the fabrication of a Prototype In-line, On-Line PI Comparator and a Precise Measuring Comparator. In the attached letter dated 11 October 1968, the Contractor submitted a request for answers to certain questions regarding the Data Acquisition Specifications.

2. In response to question number one, it must be asked what particular characteristics of the data transmission are in doubt?

3. In response to question two, the "bit length" is 833 micro-seconds.

4. As stated in Attachment 3, Appendix A entitled "Typical Readout Sequence", twelve position rotary switches are prevented from turning to the twelfth position by mechanical stops. In other words, the twelfth position is not used and if an eleven position switch is available, it may be used. This should satisfy question three.

[Signature Box]

25X1

SIGNATURE

DATE

**REPLY**

NGA Review Complete

SIGNATURE

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RECEIVED  
STAFF

October 11, 1968



U. S. Government

Attention: Mr. Ed D.

Subject: Control #02228

Gentlemen:

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 has asked the   
for the answers to the following questions.

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With reference to "Data Acquisition Specifications":

1. Paragraph 2.1.1 states that the rate of transmission is to be fixed at 1200 bits per second  $\pm 1\%$ .

A single character consists of nine "pulses", eight of which are of unit duration and the ninth a minimum of 1.5 units duration.

Since these "pulses" are held for the duration of the signal element (i. e., NRZ), each character is a minimum of 9.5 units in duration.

The question is, what is the value of the unit? Is it  $1/1200 = 833$  microseconds? If so, the maximum average data rate will be approximately 1140 bits per second.

EIA Standard RS-232-B does not specify data rates.

2. It is understood that the 12-position rotary switches are to select codes for the digits zero through nine, minus sign and space.

What is the code for "space"?

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U.S. Government, contd.

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October 11, 1968

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would like to receive a letter from you stating:

1. That the data transmission characteristics conform with EIA Standard RS-232-B.
2. The duration in microseconds of a unit signal element, or "bit length."
3. The character to be used to denote "space."

Very truly yours,

Asst. Manager, Engineering

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HBB:pc